



**Bianca Mihaela Cășeriu**

## WORK EXPERIENCE

### Technical Deputy

*M.Ap.N. - U.M. 01016 Târgu Mureș* [ 31/07/2019 – Current ]

City: Târgu Mureș

Country: Romania

#### Main Responsibilities:

1. Organization and coordination of logistics activities.
2. Planning, organizing and controlling the execution of military equipment maintenance activity.
3. Leading the activity of restoring defective equipment to working conditions.
4. Organization and management of the specialized training of technical engineering personnel.
5. Management of the operation, evacuation, maintenance and repair of military equipment.
6. Monitoring in operation and during the life cycle of military equipment newly put into operation.
7. Making proposals for the modernization of military equipment.

### Logistics planning officer

*Headquarters Multinational Division South-East* [ 01/11/2019 – 30/04/2020 ]

City: Bucharest

Country: Romania

Headquarters Multinational Division South-East is a North Atlantic Council (NAC) activated NATO military body under operational command (OPCOM) of Supreme Allied Commander Europe.

## EDUCATION AND TRAINING

### High school

*"Ștefan cel Mare" National Military College* [ 01/09/2011 – 01/07/2015 ]

Address: 6 Izvorul Malului, 725100 Câmpulung Moldovenesc (Romania)

Website: [https://colmil\\_sm.forter.ro/](https://colmil_sm.forter.ro/)

### Automotive Engineer

*"Ferdinand I" Military Technical Academy* [ 01/09/2015 – 30/06/2019 ]

Address: 39-49 Bd. George Coșbuc, 050141 Bucharest (Romania)

Website: <https://mta.ro/>

Field(s) of study: Automotive Engineering



Faculty of Aircraft and Military Vehicles  
Study program: Armored vehicles, automobiles and tractors

### **Tanker Driving Certificate**

**NCO Academy** [ 01/06/2017 – 10/07/2017 ]

Address: 16, Trivale, 110058 Pitești (Romania)

Website: <http://www.ncoacademy.ro/>

### **Course "Regulations and tests in the field of polluting emissions of road vehicles"**

**Society of Automobile Engineers from Romania** [ 01/07/2019 – 30/07/2019 ]

Address: 313 Splaiul Independenței, 060042 Bucharest (Romania)

Website: <https://siar.ro/>

### **Master in Automotive Engineering**

**"Ferdinand I" Military Technical Academy** [ 01/09/2019 – 30/07/2021 ]

Address: 39-49, Bd. George Coșbuc, 050141 Bucharest (Romania)

Website: <https://mta.ro/>

Field(s) of study: Automotive Engineering

Faculty of Aircraft and Military Vehicles  
Study program: Equipment and technologies in Automotive Engineering

### **Military Paratrooper Certificate**

**Romanian Air Force** [ 18/09/2021 – 30/10/2021 ]

Address: 013693 Bucharest (Romania)

Website: <https://www.roaf.ro/>

### **International Leadership and management in the automotive Industry, Lean Management, Automation technology - data and control, Industry 4.0 @Bosch, Plant Controlling, Problem Solving, Industrial Logistic, Human Resources @Bosch Blaj**

**Bosch Academy Program** [ 01/05/2023 – 31/05/2023 ]

City: Târgu Mureș

Country: Romania

### **Finance and Logistics Specialist**

**Defence Security Cooperation University** [ 10/07/2023 – 21/07/2023 ]

City: Brasov

Country: Romania

Website: <https://www.dscu.edu/>

### **Advanced course in the field technical engineering**

**Military Technical Academy „Ferdinand I”** [ 16/10/2023 – 24/11/2023 ]

City: Bucharest

Country: Romania

Website: <https://mta.ro/>

### **PhD in Management and Engineering**

**"George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Targu Mures** [ 01/10/2021 – 30/09/2024 ]

Address: 38, Gheorghe Marinescu, Târgu Mureș , 540142 Târgu Mureș (Romania)



Website: <https://www.umfst.ro/home.html>

Field(s) of study: Management and Engineering

### **Design and Application of Specific Ergonomic Systems in Automotive Industry Specialist**

**Hirschmann Automotive TM SRL** [ 01/01/2023 – 30/12/2024 ]

Address: 1/A Chirileu, 547551 Târgu Mureș (Romania)

Website: <https://www.hirschmann-automotive.com/en/company/locations/targu-mures>

Field(s) of study: Collective Scientific Research Grant

Thesis: Research on the optimization and implementation of HIL principles for servicing the process of manufacturing of wiring harnesses specific to the automotive industry by improving the ergonomics of the human operator

Through this research theme, respectively: "Research on the optimization and implementation of principles HIL (Human In the Loop) to service the manufacturing process of industry-specific wiring harnesses automotive by improving the ergonomics of the human operator", we identify the parameters ergonomic from the perspective of the human operator, considered as an operational and decisional link of a technological cell on the manufacturing flow for connectors intended for the automotive industry, ensuring simultaneously, ergonomic symbiosis between the human operator and the manufacturing line in operation semi-automatic. In other words, the aim is to identify a configuration for developing a flexible system includes the design of mechanical and electronic devices adapted to the technological cell operated by the team of work based on a virtual model analyzed, made, tested, and validated in the laboratory based on the principles of interaction and human operator-centric interfaces, i.e., further deployment in production after testing in industrial environment.

### **German language course for beginners**

**The Foreign Language Center of SMFT Sibiu** [ 10/10/2023 – Current ]

City: Sibiu

Country: Romania

Website: <https://www.clssibiu.ro/>

## **LANGUAGE SKILLS**

Mother tongue(s): **română**

Other language(s):

**English**

**LISTENING A1 READING A2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B1**

**French**

**LISTENING A2 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

**German**

**LISTENING A1 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## **DIGITAL SKILLS**

**Medium level**

Autodesk AutoCAD Autodesk Inventor / Comsol Multiphysics Acoustic Module / Simcenter AMESIM

**Advanced level**

Microsoft Office / Mathematical programming language: Matlab, Simulink / Microsoft Powerpoint / Microsoft Excel



## Beginner level

ANSYS SIMULATION SOFTWARE / Comsol Multiphysics software basic level / AutoCAD (începător) / CAD modelling with Catia V5

## PUBLICATIONS

**CĂȘERIU, Bianca, Octavian JITARAȘU, and Petruța BLAGA. "ASPECTS REGARDING THE DYNAMICS OF A PROTOTYPE OF REMOTE CONTROLLED LOGISTICS TRANSPORT PLATFORM." ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING 65.2 (2022).**

Link: <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1812>

**CĂȘERIU, Bianca; BLAGA, Petruța. Automotive Comfort: State of the Art and Challenges. In: The 16th International Conference Interdisciplinarity in Engineering: Inter-Eng 2022 Conference Proceedings. Cham: Springer International Publishing, p. 375-387, (2022).**

Link: [https://link.springer.com/chapter/10.1007/978-3-031-22375-4\\_30](https://link.springer.com/chapter/10.1007/978-3-031-22375-4_30)

**Bianca, CĂȘERIU, Petruța BLAGA. "Comprehensive analyses between acoustic comfort and materials used in vehicles A data driven literature review of acoustic comfort in vehicles", Journal of Multidisciplinary Engineering Science and Technology, ISSN: 2458-9403, Vol 12, Issue 12,p. 15713-15717, (2022)**

Link: <http://www.jmest.org/vol-9-issue-12-december-2022/>

**Bianca, CĂȘERIU, Petruța BLAGA. "Assessment on the acoustic comfort inside the heavy vehicle cabin", Acta Marisiensis. Seria Technologica Vol. 20 (XXXIV) no. 2, ISSN 2668-4217, ISSN-L 2668-4217, (2023)**

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Link: <http://scientificbulletin.upm.ro/papers/2023-2/AMSET-2023-0012.pdf>

**Bianca, CĂȘERIU, Petruța BLAGA. "Considerations regarding the ergonomics of the vehicle interior", Acta Marisiensis. Seria Technologica Vol. 20 (XXXIV) no. 2, ISSN 2668-4217, ISSN-L 2668-4217, (2023)**

Link: <http://scientificbulletin.upm.ro/papers/2023-2/AMSET-2023-0015.pdf>

**Bianca, CĂȘERIU, Petruța BLAGA. "Analysis of interior noise in special purpose vehicles", Review of the Air Force Academy, no. 1 (47), 2023, ISSN: 2069-4733, Print ISSN: 1842-9238, (2023)**

Link: [https://www.afahc.ro/ro/revista/2023\\_1/5-BiancaCASERIU,PetrutaBLAGA.pdf](https://www.afahc.ro/ro/revista/2023_1/5-BiancaCASERIU,PetrutaBLAGA.pdf)

**Cășeriu, B., Blaga, P. (2023). Analysis of the effects of vehicle vibrations and noise on the humanbody, International Journal of Recent Advances in Multidisciplinary Research, Vol. 10, Issue 09,pp.8841-8845, September, 2023, pp. 2450-2454, ISSN: 2350-0743.**

**Cășeriu Bianca-Mihaela and Petruța Blaga 2023. 'Investigating Noise Sources for a Heavy Vehicle',International Journal of Current Advanced Research, 12(08), pp. 2450-2454. DOI: <http://dx.doi.org/10.24327/ijcar.2023.2454.1533>.**

Link: <http://dx.doi.org/10.24327/ijcar.2023.2454.1533>

**Cășeriu Bianca-Mihaela and Petruța Blaga, 2023,Numerical analysis of vehicle interior acoustics,INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY, 12(10), 1-11,ISSN: 2277-9655**

Link: <https://zenodo.org/records/10036746>



## DRIVING LICENCE

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Driving Licence: B

## CONFERENCES AND SEMINARS

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**Cășeriu, B., Blaga, P. (2022). Comprehensive analyses between comfort and reducing petroleum research, The International Conference of PhD Students and Young Doctors Science and Technology, UMFST Târgu Mureș**

[ 05/12/2022 ]

**Cășeriu, B.(2023). Study of Noise, Vibration and Harshness on heavy vehicles, The International Conference of PhD Students and Young Doctors Science and Technology, Department of Industrial Engineering and Management, UMFST Târgu Mureș**

[ 13/12/2023 ]

**Cășeriu B., Petruța Blaga, Automotive Comfort: State of The Art And Challenges, în The 16th International Conference INTER-ENG 2022, Interdisciplinarity in Engineering, "George Emil Palade" UMFST of Târgu Mureș**

[ 06/10/2022 ]

**Cășeriu B.,Aspects Regarding the Ergonomic Design of Workstations in the Automotive Manufacturing Industry, în The 17th International Conference INTER-ENG 2023, Interdisciplinarity in Engineering, "George Emil Palade" UMFST of Târgu Mureș.**

[ 05/10/2023 ]